Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878 - Malta

SAFETY DATA SHEET



SWISS SILVER PROTECT 2180-10 - All variants

SECTION 1: Identification of the substance/mixture and of the company/ undertaking

1.1 Product identifier

Product name : SWISS SILVER PROTECT 2180-10 - All variants

1.2 Relevant identified uses of the substance or mixture and uses advised againstProduct use: Paint.

1.3 Details of the supplier of the safety data sheet

Teknos Group Oy, Takkatie 3, FI-00370 HELSINKI, FINLAND. Tel. +358 9 506 091.

e-mail address of person : Prod-safe@teknos.com responsible for this SDS

National contact

Teknos Group Oy, Takkatie 3, FI-00370 HELSINKI, FINLAND. Tel. +358 9 506 091.

1.4 Emergency telephone number

National advisory body/Poison Centre

 Telephone number
 : Malta Competition and Consumer Affairs Authority (MCCAA): +356 2395 2000

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Skin Sens. 1, H317

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Hazard pictograms



Signal word	Warning	
Hazard statements	H317 - May cause an allergic skin reaction.	
Precautionary statements		
Prevention	P280 - Wear protective gloves. P261 - Avoid breathing vapour.	
Response	P362 + P364 - Take off contaminated clothing and wash it before reuse. P302 + P352 - IF ON SKIN: Wash with plenty of water. P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention.	
Storage	Not applicable.	
Disposal	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.	
Hazardous ingredients	Contains: adipohydrazide; EO bis(benztriazolyl)phenylpropionat; 1,2-benzisothiaz (2H)-one and reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	<u>:</u> ol-3

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SECTION 2: Hazards identification

Supplemental label elements	: Warning! Hazardous respirable droplets may be formed when sprayed. Do not
	breathe spray or mist.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	:
2.3 Other hazards	
Product meets the criteria for PBT or vPvB according to Regulation (EC) No.	: This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

Other hazards which do : None known. not result in classification

1907/2006, Annex XIII

SECTION 3: Composition/information on ingredients

3.2 Mixtures	: Mixture				
Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
Propan-2-ol	REACH #: 01-2119457558-25 EC: 200-661-7 CAS: 67-63-0 Index: 603-117-00-0	≤3	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	-	[1]
titanium dioxide	REACH #: 01-2119489379-17 EC: 236-675-5 CAS: 13463-67-7	≤3	Carc. 2, H351 (inhalation)	-	[1] [*]
adipohydrazide	REACH #: 01-2119962900-36 EC: 213-999-5 CAS: 1071-93-8	<1	Skin Sens. 1, H317 Aquatic Chronic 2, H411	-	[1]
EO bis(benztriazolyl) phenylpropionat	REACH #: 01-0000015075-76 EC: 400-830-7 CAS: 104810-48-2 Index: 607-176-00-3	<1	Skin Sens. 1A, H317 Aquatic Chronic 2, H411	-	[1]
2-Butoxyethanol	REACH #: 01-2119475108-36 EC: 203-905-0 CAS: 111-76-2 Index: 603-014-00-0	≤0.3	Acute Tox. 4, H302 Acute Tox. 3, H331 Skin Irrit. 2, H315 Eye Irrit. 2, H319	ATE [Oral] = 1200 mg/kg ATE [Inhalation (vapours)] = 3 mg/l	[1] [2]
1,2-benzisothiazol-3(2H)- one	EC: 220-120-9 CAS: 2634-33-5 Index: 613-088-00-6	<0.05	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400	ATE [Oral] = 1020 mg/kg Skin Sens. 1, H317: C ≥ 0.05% M [Acute] = 1	[1]
pyrithione zinc	REACH #: 01-2119511196-46 EC: 236-671-3 CAS: 13463-41-7 Index: 613-333-00-7	<0.025	Acute Tox. 3, H301 Acute Tox. 2, H330 Eye Dam. 1, H318 Repr. 1B, H360D STOT RE 1, H372 Aquatic Acute 1, H400	ATE [Oral] = 221 mg/kg ATE [Inhalation (dusts and mists)] = 0.14 mg/l M [Acute] = 1000	[1]
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			Aquatic Chronic 1, H410	M [Chronic] = 10	
reaction mass of: 5-chloro- 2-methyl-4-isothiazolin- 3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol- 3-one [EC no. 220-239-6] (3:1)	CAS: 55965-84-9 Index: 613-167-00-5	<0.001	Acute Tox. 3, H301 Acute Tox. 2, H310 Acute Tox. 2, H330 Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 EUH071	ATE [Oral] = 53 mg/ kg ATE [Dermal] = 50 mg/kg ATE [Inhalation (vapours)] = 0.5 mg/l Skin Corr. 1C, H314: C \geq 0.6% Eye Dam. 1, H318: C \geq 0.6% Eye Irrit. 2, H319: 0.06% \leq C $<$ 0.6% Skin Sens. 1, H317: C \geq 0.0015% M [Acute] = 100 M [Chronic] = 100	[1]
			See Section 16 for the full text of the H statements declared above.		

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

<u>Type</u>

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[*] The classification as a carcinogen by inhalation applies only to mixtures placed on the market in powder form

containing 1% or more of titanium dioxide particles with aerodynamic diameter \leq 10 µm not bound within a matrix.

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: First aid measures

4.1 Description of first aid me	easures
Eye contact	: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Skin contact	: Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

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Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. It
	may be dangerous to the person providing aid to give mouth-to-mouth resuscitation Wash contaminated clothing thoroughly with water before removing it, or wear gloves.
1.2 Most important sympton	ns and effects, both acute and delayed
Over-exposure signs/symp	<u>itoms</u>
Eye contact	: No specific data.
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: irritation redness
Ingestion	: No specific data.
4.3 Indication of any immed	iate medical attention and special treatment needed
Notes to physician	: In case of inhalation of decomposition products in a fire, symptoms may be delayed The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments	: No specific treatment.
SECTION 5: Firefigh	ting measures
5.1 Extinguishing media	
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.
5.2 Special hazards arising	from the substance or mixture
Hazards from the substance or mixture	: In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous combustion products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides metal oxide/oxides
5.3 Advice for firefighters	
Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident i there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, prote	ective equipment and emergency procedures
For non-emergency : personnel	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

SECTION 6: Accidental release measures			
6.2 Environmental precautions	: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).		
6.3 Methods and materia	I for containment and cleaning up		
Small spill	: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.		
Large spill	: Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.		
6.4 Reference to other sections	: See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment.		

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

See Section 13 for additional waste treatment information.

7.1 Precautions for safe handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

7.3 Specific end use(s)

Recommendations

: Not available.

Industrial sector specific solutions

: Not available.

SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

8.1 Control parameters

Occupational exposure limits

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SECTION 8: Exposure controls/personal protection		
Product/ingredient name Exposure limit values		
2-Butoxyethanol	EU OEL (Europe, 1/2022). Absorbed through skin. Notes: list of indicative occupational exposure limit values TWA: 20 ppm 8 hours. TWA: 98 mg/m ³ 8 hours. STEL: 50 ppm 15 minutes. STEL: 246 mg/m ³ 15 minutes.	

Biological exposure indices

Product/ingredient name	Exposure indices
No exposure indices known.	

Recommended monitoring : Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the procedures assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

Product/ingredient name	Туре	Exposure	Value	Population	Effects
Propan-2-ol	DNEL	Long term Oral	26 mg/kg	General	Systemic
		-	bw/day	population	
	DNEL	Long term	89 mg/m ³	General	Systemic
		Inhalation	U U	population	, , , , , , , , , , , , , , , , , , ,
	DNEL	Long term Dermal	319 mg/kg	General	Systemic
		Ū	bw/day	population	, , , , , , , , , , , , , , , , , , ,
	DNEL	Long term	500 mg/m ³	Workers	Systemic
		Inhalation	J		,
	DNEL	Long term Dermal	888 mg/kg	Workers	Systemic
			bw/day		-,
adipohydrazide	DNEL	Long term	17.5 mg/m ³	Workers	Systemic
		Inhalation			-)
2-Butoxyethanol	DNEL	Long term Oral	6.3 mg/kg	General	Systemic
2 Dater, jourianer	0.122	Long tonn oran	bw/day	population	eyetenne
	DNEL	Short term Oral	26.7 mg/	General	Systemic
	0.122		kg bw/day	population	eyetenne
	DNEL	Long term	59 mg/m ³	General	Systemic
	DITE	Inhalation	oo mg/m	population	Cyclonno
	DNEL	Long term	98 mg/m³	Workers	Systemic
	DITE	Inhalation	oo mg/m		Cyclonno
	DNEL	Short term	147 mg/m ³	General	Local
	DINCE	Inhalation	i 47 mg/m	population	Looal
	DNEL	Short term	246 mg/m ³	Workers	Local
	DINCE	Inhalation	240 mg/m	Workers	Looal
	DNEL	Short term	426 mg/m ³	General	Systemic
		Inhalation	420 mg/m	population	Oysternie
	DNEL	Short term	1091 mg/	Workers	Systemic
		Inhalation	m ³	WOIKEIS	Oysternic
1,2-benzisothiazol-3(2H)-one	DNEL	Long term Dermal	0.345 mg/	General	Systemic
		Long term Derma	kg bw/day	population	Oysternie
	DNEL	Long term Dermal	0.966 mg/	Workers	Systemic
		Long term Derma	kg bw/day	WOINCI3	Oysternie
	DNEL	Long term	1.2 mg/m^3	General	Systemic
		Inhalation	1.2 mg/m	population	Cysternio
	DNEL	Long term	6.81 mg/m ³		Systemic
	DINCE	Inhalation	0.01 mg/m	Workers	Cysternie
pyrithione zinc	DNEL	Long term Dermal	0.01 mg/	Workers	Systemic
		Long torm Dorma	kg bw/day		Cystonio
reaction mass of: 5-chloro-2-methyl-	DNEL	Long term	0.02 mg/m^3	General	Local
			J.oz mg/m	Conciai	20001

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-isothiazolin-3-one [EC no. 47-500-7] and 2-methyl-2H- sothiazol-3-one [EC no. 220-239-6] 3:1)		Inhalation		population	
(0.1)	DNEL	Long term Inhalation	0.02 mg/m³	Workers	Local
	DNEL	Short term Inhalation	0.04 mg/m ³	General population	Local
	DNEL	Short term Inhalation	0.04 mg/m ³		Local
	DNEL	Long term Oral	0.09 mg/ kg bw/day	General population	Systemic
	DNEL	Short term Oral	0.11 mg/ kg bw/day	General population	Systemic

PNECs

No PNECs available

8.2 Exposure controls

0.2 Exposure controls						
Appropriate engineering controls	: Good general ventilation should be sufficient to control worker exposure to airb contaminants.	Good general ventilation should be sufficient to control worker exposure to airborne contaminants.				
Individual protection measu	<u>es</u>					
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working per Appropriate techniques should be used to remove potentially contaminated clo Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safet showers are close to the workstation location.	othing. h				
Eye/face protection	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.					
Skin protection						
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard sl be worn at all times when handling chemical products if a risk assessment indi this is necessary. Considering the parameters specified by the glove manufac check during use that the gloves are still retaining their protective properties. I should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting several substances, the protection time of the gloves cannot be accurately estimated.	icates turer, t				
	Recommendations : Wear suitable gloves tested to EN374.					
	> 8 hours (breakthrough time): Nitrile gloves. thickness > 0.3 mm					
	Not recommended polyvinyl alcohol (PVA) gloves					
Body protection	: Personal protective equipment for the body should be selected based on the tabeing performed and the risks involved and should be approved by a specialist before handling this product.					
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should approved by a specialist before handling this product.	be				
Respiratory protection	: Based on the hazard and potential for exposure, select a respirator that meets appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other impo- aspects of use. Filter type (spray application): A P					
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation In some cases, fume scrubbers, filters or engineering modifications to the proce equipment will be necessary to reduce emissions to acceptable levels.					

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SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

9.1 Information on basic physical and chemical properties

. I mormation on basic physic		u chemical prope	i lies		
<u>Appearance</u>					
Physical state	: 1	Liquid.			
Colour	: 1	Various			
Odour	:	Slight			
Odour threshold	:	Not available.			
Melting point/freezing point	: 1	Not available.			
Initial boiling point and boiling range	-				
Ingredient name		°C	°F	Method	
Propan-2-ol		83	181.4		
water		100	212		
Flammability	:	Not available.			
Lower and upper explosion limit		Lower: 2% Upper: 12.6%			
Flash point	: /	Closed cup: >100°	C (>212°F)		
Auto-ignition temperature	:				
Ingredient name		°C	°F	Method	
Propylene glycol		371	699.8		
Propan-2-ol		456	852.8		
Decomposition temperature	:	Not available.			
рН	: 1	7.4 to 7.8 [Conc. (%	% w/w): 100%]		
/iscosity	:	Not available.			
Solubility(ies)	:				
Not available.					
Solubility in water	:	Not available.			
Partition coefficient: n-octanol water	/:	Not applicable.			
Vapour pressure	:				

Vapour pressure

	Va	Vapour Pressure at 20°C			Vapour pressure		
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method	
Propan-2-ol	33.00268	4.4					
water	17.5	2.3					
Relative density	: Not	available.					
Density	: 1.1	g/cm³					
/apour density	: Not	available.					

Explosive properties Oxidising properties

Particle characteristics Median particle size

: Not available.

: Not available.

: Not applicable.

SECTION 10: Stabilit	y and reactivity	
10.1 Reactivity	: No specific test data related to reactivity available for this product or its ingredients.	
10.2 Chemical stability	: The product is stable.	
10.3 Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.	
10.4 Conditions to avoid	: No specific data.	
10.5 Incompatible materials	: No specific data.	
10.6 Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.	

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Propan-2-ol	LD50 Dermal	Rabbit	12800 mg/kg	-
	LD50 Oral	Rat	5000 mg/kg	-
1,2-benzisothiazol-3(2H)-	LD50 Oral	Rat	1020 mg/kg	-
one				
pyrithione zinc	LC50 Inhalation Dusts and mists	Rat	140 mg/m ³	4 hours
	LD50 Dermal	Rabbit	100 mg/kg	-
	LD50 Oral	Rat	177 mg/kg	-
reaction mass of: 5-chloro- 2-methyl-4-isothiazolin-	LD50 Oral	Rat	53 mg/kg	-
3-one [EC no. 247-500-7]				
and 2-methyl-2H-isothiazol-				
3-one [EC no. 220-239-6] (3:				
1)				

Conclusion/Summary : Based on available data, the classification criteria are not met.

Acute toxicity estimates

Route	ATE value
Inhalation (vapours)	2142.86 mg/l

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Propan-2-ol	Eyes - Moderate irritant	Rabbit	-	10 mg	-
	Eyes - Moderate irritant	Rabbit	-	24 hours 100	-
				mg	
	Eyes - Severe irritant	Rabbit	-	100 mg	-
	Skin - Mild irritant	Rabbit	-	500 mg	-
titanium dioxide	Skin - Mild irritant	Human	-	72 hours 300	-
				ug l	
2-Butoxyethanol	Eyes - Moderate irritant	Rabbit	-	24 hours 100	-
				mg	
	Eyes - Severe irritant	Rabbit	-	100 mg	-
	Skin - Mild irritant	Rabbit	-	500 mg	-
1,2-benzisothiazol-3(2H)-one		Human	-	48 hours 5 %	-
reaction mass of: 5-chloro-	Skin - Severe irritant	Human	-	0.01 %	-
2-methyl-4-isothiazolin-					
3-one [EC no. 247-500-7]					
and 2-methyl-2H-isothiazol-					
3-one [EC no. 220-239-6] (3:					
1)					

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: No previous validation

SECTION 11: Toxicological information Conclusion/Summary : Based on available data, the classification criteria are not met. Sensitisation Conclusion/Summary : May cause an allergic skin reaction. Mutagenicity Conclusion/Summary : Based on available data, the classification criteria are not met. <u>Conclusion/Summary</u> : Based on available data, the classification criteria are not met. <u>Carcinogenicity</u> It has been observed that the carcinogenic hazard of this product arises when respirable dust is inhaled in quantities leading to significant impairment of particle clearance mechanisms in the lung.

Conclusion/Summary	: Based on available data, the	classification criteria are not met.
Reproductive toxicity		
Conclusion/Summary	: Based on available data, the	classification criteria are not met.
Teratogenicity		
Conclusion/Summary	: Based on available data, the	classification criteria are not met.
<u>Teratogenicity</u>		

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
Propan-2-ol	Category 3	-	Narcotic effects

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
pyrithione zinc	Category 1	-	-

Aspiration hazard

Not available.

Information on likely routes of exposure	:	Not available.
Potential acute health effects		
Eye contact	:	No known significant effects or critical hazards.
Inhalation	:	No known significant effects or critical hazards.
Skin contact	:	May cause an allergic skin reaction.
Ingestion	:	No known significant effects or critical hazards.
Symptoms related to the physical sectors and the sectors and the sector sectors and the sectors and the sectors and the sectors are sectors and the sectors are se	sic	al, chemical and toxicological characteristics
Eye contact	:	No specific data.
Inhalation	:	No specific data.
Skin contact	:	Adverse symptoms may include the following: irritation redness
Ingestion	:	No specific data.
Delayed and immediate effect	ts	as well as chronic effects from short and long-term exposure
<u>Short term exposure</u>		
Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.
Long term exposure		
Potential immediate	:	Not available.

effects

SECTION 11: Toxicological information

Not available.

Conclusion/Summary	: Not available.
General	: Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: No known significant effects or critical hazards.

11.2 Information on other hazards 11.2.1 Endocrine disrupting properties Not available. 11.2.2 Other information

Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure	
Propan-2-ol	Acute EC50 10100 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours	
-	Acute LC50 1400000 µg/l Marine water	Crustaceans - Crangon crangon	48 hours	
	Acute LC50 4200000 µg/l Fresh water	Fish - Rasbora heteromorpha	96 hours	
titanium dioxide	Acute LC50 3 mg/l Fresh water	Crustaceans - <i>Ceriodaphnia</i> <i>dubia</i> - Neonate	48 hours	
	Acute LC50 6.5 mg/l Fresh water	Daphnia - <i>Daphnia pulex -</i> Neonate	48 hours	
	Acute LC50 >1000000 μg/l Marine water	Fish - Fundulus heteroclitus	96 hours	
2-Butoxyethanol	Acute EC50 >1000 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours	
-	Acute LC50 800000 µg/l Marine water	Crustaceans - Crangon crangon	48 hours	
	Acute LC50 1250000 µg/l Marine water	Fish - Menidia beryllina	96 hours	
1,2-benzisothiazol-3(2H)-one	Acute EC50 0.36 mg/l Marine water	Algae - Skeletonema Costatum	72 hours	
	Acute EC50 3.7 mg/l	Daphnia - <i>Daphnia Magna</i>	48 hours	
	Acute LC50 1.9 mg/l Fresh water	Fish - Onorhynchus Mykiss	96 hours	
	Acute NOEC 0.15 mg/l Marine water	Algae - Skeletonema Costatum	72 hours	
pyrithione zinc	Acute EC50 0.51 µg/l Marine water	Algae - Thalassiosira pseudonana	96 hours	
	Acute EC50 38 µg/l Fresh water	Crustaceans - <i>Ilyocypris</i> <i>dentifera</i>	48 hours	
	Acute EC50 8.25 ppb Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours	
	Acute LC50 2.68 ppb Fresh water	Fish - Pimephales promelas	96 hours	
	Chronic EC10 0.36 µg/l Marine water	Algae - Thalassiosira pseudonana	96 hours	
	Chronic NOEC 2.7 ppb Fresh water	, Daphnia - <i>Daphnia magna</i>	21 days	

12.2 Persistence and degradability

Product/ingredient name	Test	Result		Dose	Inoculum		
1,2-benzisothiazol-3(2H)-one	EU	24 % - 28 days		-	-		
Conclusion/Summary : This product has not been tested for biodegradation.							
Product/ingredient name	Aquatic half-life		Photolysis	5	Biodegradability		
1,2-benzisothiazol-3(2H)-one	-		-		Inherent		

12.3 Bioaccumulative potential

SECTION 12: Ecological information					
Product/ingredient name	LogPow	BCF	Potential		
Propan-2-ol	0.05	-	Low		
2-Butoxyethanol	0.81	-	Low		
1,2-benzisothiazol-3(2H)-one	-	3.2	Low		
pyrithione zinc	0.9	11	Low		

12.4 Mobility in soil	
Soil/water partition coefficient (Koc)	: Not available.
Mobility	: Not available.

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6 Endocrine disrupting properties

Not available.

12.7 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

13.1 Waste treatment methods	
Product	
Methods of disposal	: The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
European waste catalogue (EWC)	: 08.01.19
Packaging	
Methods of disposal	: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
Special precautions	: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

	ADR/RID	ADR/RID ADN IMDG		ΙΑΤΑ
14.1 UN number or ID number	Not regulated.	9006	UN3082	UN3082
14.2 UN proper shipping name	-	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (titanium dioxide)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (titanium dioxide)
14.3 Transport hazard class(es)	-	9	9	9
Date of issue/Date of rev	vision : 28/03/20	24 Date of previous issue	: No previous validation	Version :1 12/16
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SECTION 14: T	[ransp	ort infor	mation				
14.4 Packing group	-		-	111	111		
14.5 Environmental hazards	No.		Yes.	Yes.	Yes.		
Additional informat	ion			·			
ADN		: The prod vessels.	uct is only regulate	ed as a dangerous good	when transported in tank		
IMDG		or ≤5 kg,	: This product is not regulated as a dangerous good when transported in sizes of or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1. and 4.1.1.4 to 4.1.1.8.				
ΙΑΤΑ		or ≤5 kg,	This product is not regulated as a dangerous good when transported in sizes of $\leq 10^{-5}$ kg, provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.				
14.6 Special precaut user	tions for	upright a	•	that persons transporti	oort in closed containers that are ng the product know what to do in		
14.7 Maritime transp bulk according to IN instruments		: Not relev	ant/applicable due	to nature of the produc	:t.		

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture <u>EU Regulation (EC) No. 1907/2006 (REACH)</u>

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Product/ingredient name		%	Designati	ion [Usage]			
SWISS SILVER PROTECT	2180-10	≥90	3				
Labelling	:						
ther EU regulations							
Industrial emissions (integrated pollution prevention and control) - Air	: Listed						
Industrial emissions (integrated pollution prevention and control) - Water	: Listed						
Explosive precursors	: Not applic	able.					
Ozone depleting substanc	<u>es (1005/2009</u>	<u>/EU)</u>					
Not listed.							
Prior Informed Consent (P	IC) (649/2012/	<u>'EU)</u>					
Not listed.							
Persistent Organic Polluta Not listed.	<u>nts</u>						
te of issue/Date of revision	: 28/03/2024	4 Date of p	revious issue	: No previous validation	version	• 1	13/16

SECTION 15: Regulatory information

Seveso Directive

This product is not controlled under the Seveso Directive.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

15.2 Chemical safety	1	This product contains substances for which Chemical Safety Assessments are still
assessment		required.

SECTION 16: Other information

✓ Indicates information that has changed from previously issued version.

Abbreviations and acronyms	 ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level EUH statement = CLP-specific Hazard statement N/A = Not available PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number SGG = Segregation Group
	SGG = Segregation Group vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Skin Sens. 1, H317	Calculation method

Full text of abbreviated H statements

H225	Highly flammable liquid and vapour.						
H301	Toxic if swallowed.						
H302	Harmful if swallowed.						
H310	Fatal in contact with skin.						
H314	Causes severe skin burns and eye damage.						
H315	Causes skin irritation.						
H317	May cause an allergic skin reaction.						
H318	Causes serious eye damage.						
H319	Causes serious eye irritation.						
H330	Fatal if inhaled.						
H331	Toxic if inhaled.						
H336	May cause drowsiness or dizziness.						
H351	Suspected of causing cancer.						
H360D	May damage the unborn child.						
H372	Causes damage to organs through prolonged or repeated exposure.						
H400	Very toxic to aquatic life.						
H410	Very toxic to aquatic life with long lasting effects.						
H411	Toxic to aquatic life with long lasting effects.						
EUH071	Corrosive to the respiratory tract.						
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	PROTECT 2190 10 All veriente						

SECTION 16: Other information

Full text of classifications [CLP/GHS]

I un text of classificati	
Acute Tox. 2	ACUTE TOXICITY - Category 2
Acute Tox. 3	ACUTE TOXICITY - Category 3
Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Acute 1	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
Aquatic Chronic 1	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1
Aquatic Chronic 2	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
Carc. 2	CARCINOGENICITY - Category 2
Eye Dam. 1	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Flam. Liq. 2	FLAMMABLE LIQUIDS - Category 2
Repr. 1B	REPRODUCTIVE TOXICITY - Category 1B
Skin Corr. 1C	SKIN CORROSION/IRRITATION - Category 1C
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1	SKIN SENSITISATION - Category 1
Skin Sens. 1A	SKIN SENSITISATION - Category 1A
STOT RE 1	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 1
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3
Date of issue/ Date of	: 28/03/2024
revision	
Date of previous issue	No previous validation
Version	: 1
	SWISS SILVER DROTECT 2190-10 All variants

Notice to reader

The information in this SDS is based on the present state of our knowledge and on current laws. The product is not to be used for purposes other than those specified under section 1 without first obtaining written handling instructions. It is always the responsibility of the user to take all necessary steps to fulfil the demands set out in the local rules and legislation. The information in this SDS is meant to be a description of the safety requirements for our product. It is not to be considered a guarantee of the product's properties.

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